

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 October 2003 (09.10.2003)

PCT

(10) International Publication Number
WO 03/082966 A1

(51) International Patent Classification⁷: C08K 3/34

(21) International Application Number: PCT/AU03/00385

(22) International Filing Date: 28 March 2003 (28.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PS 1464 28 March 2002 (28.03.2002) AU

(71) Applicant (*for all designated States except US*): COM-
PCO PTY LTD [AU/AU]; Factory 10, 19-23 Japaddy
Road, Mordialloc, Victoria 3195 (AU).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): MCMAHON,
William, James [AU/AU]; 1/6-8 Bertram Street, El-
sternwick, Victoria 3185 (AU). MAYER, Hans, Anton
[DE/AU]; 8 Hilton Street, Beaumaris, Victoria 3193 (AU).

(74) Agent: GRIFFITH HACK; 509 St Kilda Road, Mel-
bourne, Victoria 3004 (AU).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: CROSS-LINKABLE AND/OR CROSS-LINKED NANOFILLER COMPOSITIONS

(57) Abstract: The present invention relates to a cross-linkable and/or cross-linked nanofiller composition which comprises a cross-linkable and/or cross-linked ethylene (co)polymer and an intercalated nanofiller. The present invention also relates to processes for preparing the nanofiller composition, articles composed of the nanofiller composition and processes for preparing the articles.

BEST AVAILABLE COPY

WO 03/082966 A1

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU03/00385

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/0033924 A1 (Qian et al.) 25 October 2001 Whole document.	1-83
X	WO 01/66627 A1 (OMNOVA SOLUTIONS INC.) 13 September 2001 Whole document.	1-83
X	WO 01/10948 A1 (EASTMAN CHEMICAL COMPANY) 15 February 2001 Whole document.	1-83
X	EP 1055706 A1 (RHEOX, INC.) 29 November 2000 Whole document.	1-83
X	WO 99/47598 A1 (THE DOW CHEMICAL COMPANY) 23 September 1999 Whole document.	1-83
X	US 5952093 A (Nichols et al.) 14 September 1999 Whole document.	1-83
X	US 5910523 A (Hudson) 8 June 1999 Whole document.	1-83
X	US 5717000 A (Karande et al.) 10 February 1998 Whole document	1-83

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU03/00385

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member		
WO	01/96467	AU	200162584	BR	200106749
		EP	1276801	US	6451897
WO	01/87596	AU	200159724	BR	200111152
		US	6447860	EP	1286831
WO	01/87566	AU	200159687	EP	1286810
		US	6403231		
US	2001/0033924				
WO	01/66627	EP	1268630	US	6414070
WO	01/10948	AU	200065302	EP	1212373
EP	1055706	JP	2001019854	US	6521690
WO	99/47598	AU	30046/99	BR	9908859
		EP	1064323	HU	200102111
		PL	342935	US	6465543
US	5952093	-			
US	5910523	-			
US	5717000	AU	21322/97	BR	9707867
		CN	1212001	CZ	9802639
		IL	125824	NO	983856
		WO	9731053	CA	2247194
				EP	882089
				PL	328459
END OF ANNEX					